



Absorptive Coaxial SP3T Switch 100-600MHz

Features

- Wide Band Operation 100-600GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation



Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameters	Min.	Typ.	Max.	Units
Frequency Range	100-600			MHz
Insertion Loss		0.5	0.9	dB
Insertion Loss Temperature Coefficient		0.003		dB/ ° C
Isolation	70	85		dB
Input VSWR		1.2	1.4	: 1
Output VSWR		1.2	1.4	: 1
RF Input Power			30	dBm
DC Power Dissipation		0.8		W
0.1dB Compression Point (P0.1dB)		30		W
IIP3		55		dBm
Switching Speed		0.5	1.2	us
Weight	1.06			Ounces
Impedance	50			Ω
Bias Current (+5V / -12V)	80/50			mA
Input / Output Connectors	SMA-Female			
Finish	Gold Plated			
Material	Aluminum			
Sealing	Hermetically Sealed (Optional)			



Absolute Maximum Ratings

Biasing	+5V ± 10%/-12V ± 10%
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Environmental Specifications

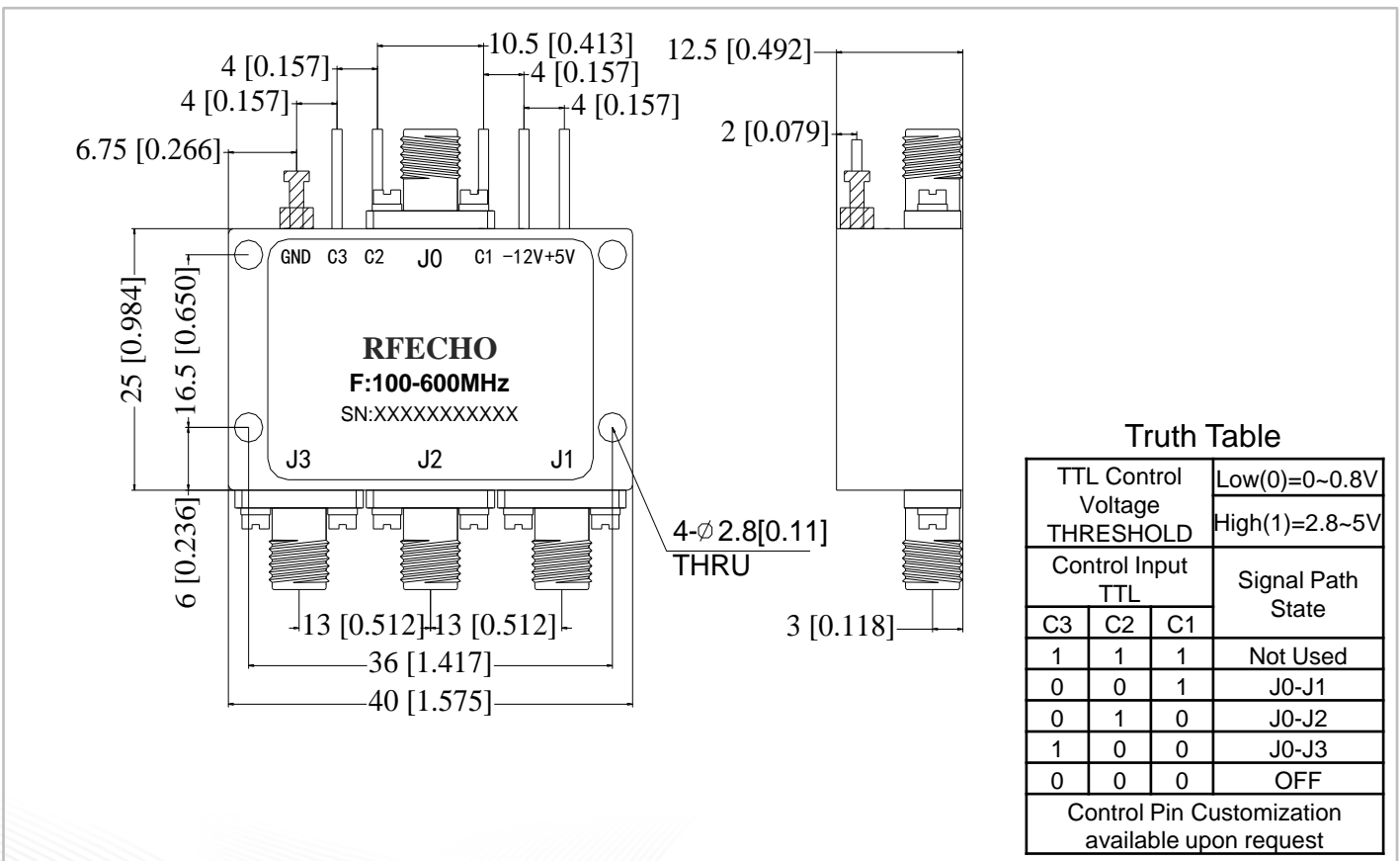
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Ordering Information

Part No.	Description
DBSA0300100060B	SP3T 100-600MHz PIN Diode Switch

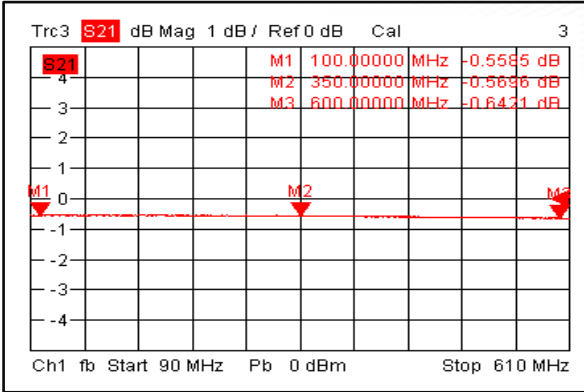
Outline Drawing:

All Dimensions in mm (inches)

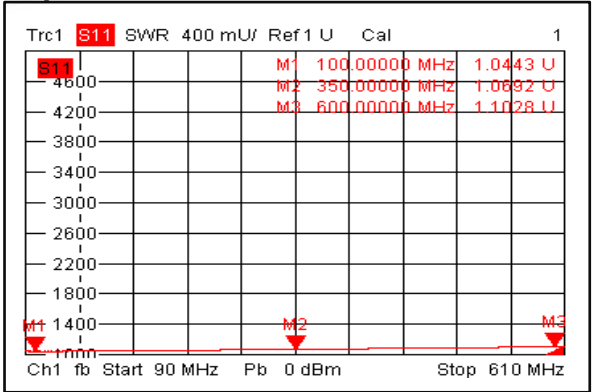




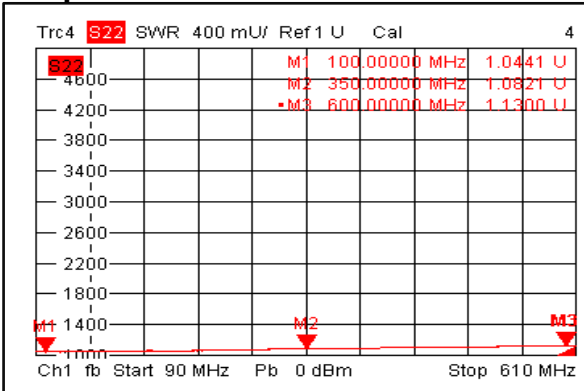
Insertion Loss @+25°C



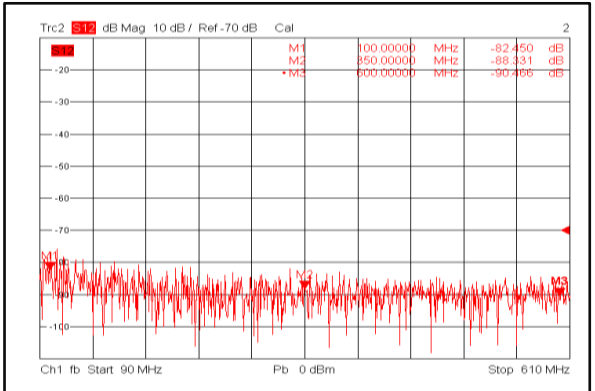
Input VSWR @+25°C



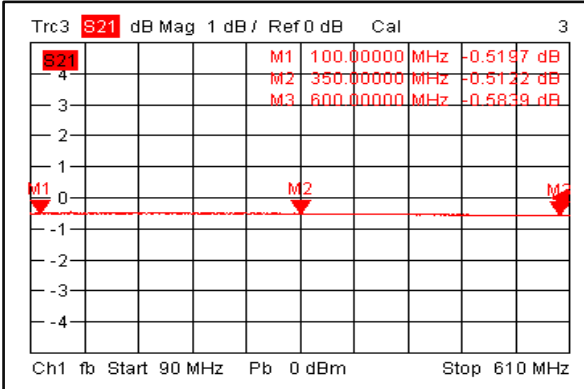
Output VSWR @+25°C



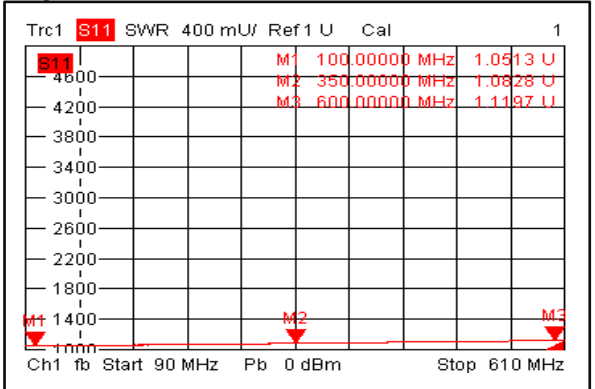
Isolation @+25°C



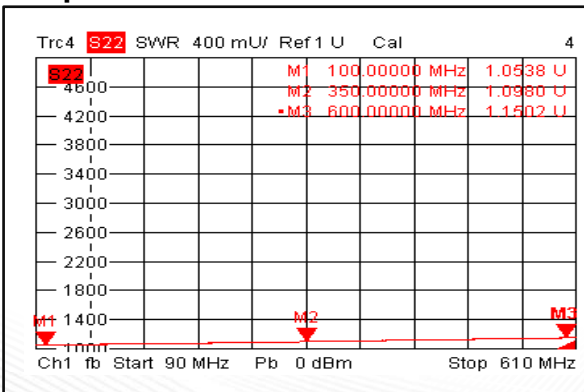
Insertion Loss @-40°C



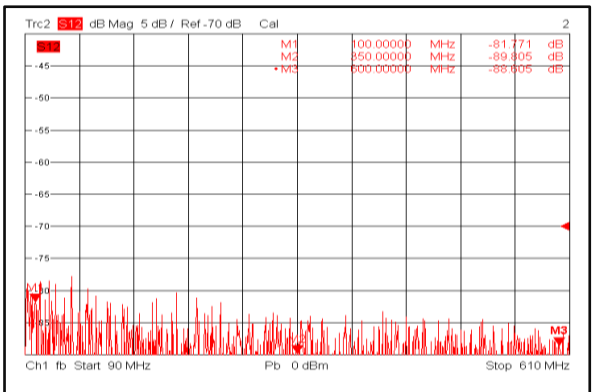
Input VSWR @-40°C



Output VSWR @-40°C

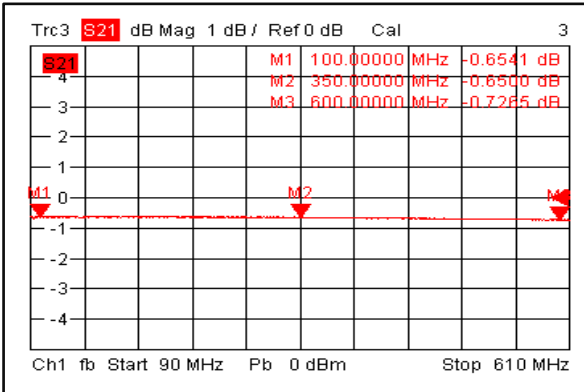


Isolation @-40°C

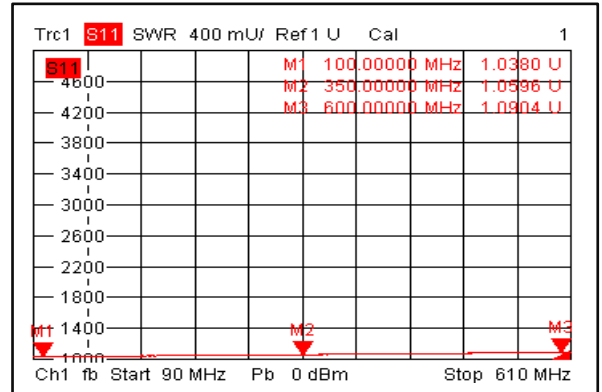




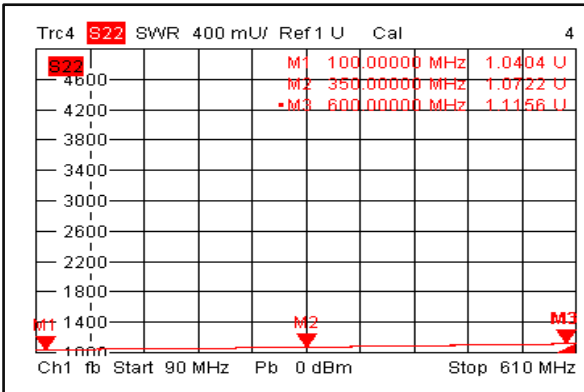
Insertion Loss @+85°C



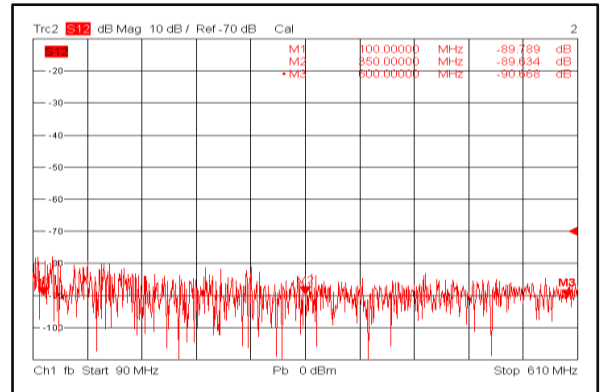
Input VSWR @+85°C



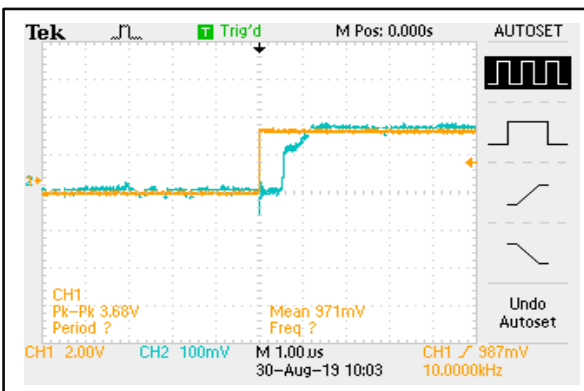
Output VSWR @+85°C



Isolation @+85°C



Switching Speed



Switching Speed

